Hoffmann Group

Garant

Video measuring microscope MM1, Type: 200/6X

Order data

Order number	492500 200/6X
GTIN	4062406160227
Item class	41P

Description

Version:
Measuring microscope with quick image processing, high-resolution colour camera, and a multi-touch panel PC that is easy to operate and suitable for the workshop environment, with **intuitive M3 measurement software.**
Incident illumination: 56 white LEDs in 2 concentric rings. 1 ring and 4 segments can each be separately switched and dimmed.
Transillumination: Long-life LEDs, telecentric, can be switched and dimmed. **Solid granite base** with surface-hardened indexing table and high-precision guides. Ergonomic quick adjustment with one-handed operation in both axes (X and Y). **Diode laser** as positioning guide. Very high repetition accuracy thanks to **automatic edge detection.**
Now with M3 software version 4:
·   **With modern 64 bit application for easy handling of large data.**
·   **Extended measurement programme recording mode with optional standard or extended recording mode.**
·   **Save and load reference system: ideally suited to the use of quick-clamping systems.**
·   **New export functions such as direct export to PDF and improved speed for direct export to Excel.**
With 6-step manual raster zoom lens, magnification from 0.35× to 2.25× and coaxial light for uniform illumination of components.

Application:

· **In goods receiving, in the inspection room, in manufacturing.**
· **Suitable for general purpose use due to flexible four-quadrant incident light and compact measurement computer.**
· **A wide variety of geometric shapes and materials can be reliably measured in a user-friendly manner. Documentation can also be performed.**

Cutting data:

Zoom level / Shown on display / Field of view: 0.35× / 16× / 20×13 mm².

Zoom level / Shown on display / Field of view: 0.5× / 23× / 14×9 mm².

Zoom level / Shown on display / Field of view: 1× / 43× / 7×4 mm².

Zoom level / Shown on display / Field of view: 1.5× / 65× / 4×3 mm².

Zoom level / Shown on display / Field of view: 2× / 90× / 3×2 mm².

Zoom level / Shown on display / Field of view: 2.5× / 100× / 3×2 mm².

Supplied with:

All-in-One PC, wireless mouse and keyboard, dust cover, power supply unit, test certificate, and user manual.

Optional extras:

Lens No. 491912, software option No. 491913, cutting edge cleaner No. 354788.

Note:

Length measurement variation $E_{UXY, MPE}$ to DIN EN ISO 10360-7 for magnification factor = 0.5.

Permissible ambient conditions: 20 °C ± 1 K, temperature gradient Δ_{th} = 0.5 K/h, Δ_{th} = 4.0 K/d, measured with a calibrated standard.

For all GARANT video measuring microscopes we can offer you the following on request:

· **Maintenance contract.**
· **Installation and commissioning with brief instruction on use.**
· **Individual training for your employees.**
· **On-site calibration.**

We reserve the right to make technical changes and to change the touch panel version.

Measuring range X: 200 mm

Measuring range Y: 100 mm

Measuring range Z: 100 mm

Length measurement variation $E_{UXY, MPE}$ optically (2D): 2.9 + L / 100 (L in mm) at 20 °C ±1 K µm

Lens (times): 0.35 − 2.25

Magnification at the screen (times): 16 − 100

Technical description

maximum component weight	20 kg
Height	770 mm
Field of view	20×13 − 3×2 mm
Working distance	80 mm

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Length measurement variation $E_{UXY,\,MPE}$ optically (2D)	2.9 + L / 100 (L in mm) at 20 °C ±1 K µm
Weight	60 kg
Camera	6.4 megapixels
Magnification at the screen (times)	16 – 100
Measuring range Y	100 mm
maximum component height	100 mm
Measuring range X	200 mm
Lens (times)	0.35 – 2.25
Width	600 mm
Measuring range Z	100 mm
Length	500 mm
Power supply	Mains operated
Nominal voltage	230 / 240 V
Type of product	Video measuring microscope

Accessories

Software option for MM1 Type DXF	491913 DXF
Dust cover Type 200	491919 200
Software option for MM1 Type PROFIL	491913 PROFIL
Clamping systems for GARANT video measuring microscopes suitable for table width 200 mm	494430 200
Lens for measuring microscopes MM1/MM2 Type 3	491912 3
Base cabinet for measuring microscopes width×depth 1500X700 mm	491914 1500X700
Accessories for video measuring microscopes Type 200	491917 200
Accessories for video measuring microscopes Type FEDER	491917 FEDER
Anti-slip mat A5 × 1 mm	491955
Type 200	491948 200